

CLAIMS

1 - Door for an automated machine, comprising a chassis (6) delimiting an opening (7) and equipped with guide means for the movement of at least one mobile panel (10, 11), between a closed position in which the façade (14) of the mobile panel (10) at least partly closes the opening (7) and an open position in which the mobile panel (10) is located laterally with respect to the opening (7), characterised in that the mobile panel (10) comprises:

- a reception structure (12) for a man-machine interface (13) for which the façade is accessible when the mobile panel is in the closed position,
- and reception structure displacement means (12) assuring that when the mobile panel is in the open position, the façade (14) of the man-machine interface (13) is moved towards the opening (7) so that an operator in position in front of the opening can access the opening and the man-machine interface (13) at the same time.

2 - Door according to claim 1, characterised in that the reception structure displacement means (12) are composed of displacement guide means (25) that slide and pivot the mobile panel (10, 11) thus ensuring that the mobile panel façade (14) is facing the opening (7) when the mobile panel is in the open position.

3 - Door according to claim 1, characterised in that the reception structure displacement means (12) are composed of means capable of pivoting the reception structure (12) of the man-machine interface such that the façade of the man-machine interface (13) is accessible when the mobile panel is in the closed position or the open position.

4 - Door according to claim 1, characterised in that the displacement guide means enable the façade of the man-machine interface to move into a plane forming an angle with the plane delimited by the opening (7) equal to between 40° and 135°, and preferably between 60° and 110°.

5 - Door according to claim 1 or 4, characterised in that the displacement guide means enable the façade of the man-machine interface to move into a plane approximately perpendicular to the plane delimited by the opening (7).

6 - Door according to claim 1, characterised in that the guide means (25) slide and pivot a mobile panel (10) and consist of at least one support and guide rail (30) for at

least one roller device (31) fitted on the mobile panel (10), the mobile panel being connected by a pivot (46) to an extension bar (47) guided in translation along a direction approximately perpendicular to the opening.

7 - Door according to claim 1, characterised in that the sliding and pivoting guide means (25) consist of at least one support and guide rail (30) for at least one roller device (31) fitted on a first mobile panel (10) hinged to a second mobile panel (11) installed hinged on the chassis, the mobile panels (10, 11) being intended to fold in contact with each other in the open position of the opening.

8 - Door according to claim 6 or 7, characterised in that the sliding and pivoting guide means (25) comprise a support and guide rail called the upper rail (30) arranged in the top part of the chassis (6) and a guide rail called the lower rail (39) arranged in the lower part of the chassis, one supporting the roller device(s), fitted on the mobile panel, and the other supporting a guide device (35).

9 - Door according to claim 1, characterised in that the mobile panel (10₁) is fitted with a man-machine interface (13) containing machine instrumentation and/or control means.

10 - Automated machine characterised in that it comprises a door (1) conform with one of claims 1 to 9.